PATENT COOPERATION TREAT

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		From the INTERNA	ATIONAL BUREAU
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NOTIFICATION CONCER TRANSMITTAL OF COPY OF INT PRELIMINARY REPORT ON PAT (CHAPTER I OF THE PATENT CO TREATY) (PCT Rule 44bis.1(c))	ERNATIONAL ENTABILITY OPERATION	CARROLL, Alice Hamilton, Brook, 530 Virginia Roa P.O. Box 9133 Concord, MA 017 ETATS-UNIS D'A	Smith & Reynolds, P.C. d 742-9133
Date of mailing (<i>day/month/year</i>) 17 August 2006 (17.08.2006)			
Applicant's or agent's file reference 3194.1038002]	IMPORTANT NOTICE
International application No. PCT/US2005/003287	International filing d 03 February 2	1 ale (<i>day/month/year</i>) 2005 (03.02.2005)	Priority date (day/month/year) 05 February 2004 (05.02.2004)
Applicant	ENTEGR	IS INC, et al	
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The International Bureau of W 34, chennin des Colombeue 1211 Geneva 20, Switzerlar	s s	Authorized officer	HAMILTON, BROOK SMITH & REYNOLDS, P.C. eate Giffo-Schmitt
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file réference 3194.1038002	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2005/003287	International filing date (<i>day/month/year)</i> 03 February 2005 (03.02.2005)	Priority date (<i>day/month/year)</i> 05 February 2004 (05.02.2004)	*****
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CT/ISA/237		
Applicant ENTEGRIS INC.			

1.	This international preliminary International Searching Author	report on patentability (Chapter I) is issued by the International Bureau on behalf of the ity under Rule 44 $bis.1(a)$.
2.	This REPORT consists of a tot	al of 9 sheets, including this cover sheet.
	In the attached sheets, any refe to the international preliminary	rence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indication	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.	The International Bureau will construction of except where the applicant date (Rule 44bis .2).	communicate this report to designated Offices in accordance with Rules $44bis.3(c)$ and $93bis.1$ hut makes an express request under Article 23(2), before the expiration of 30 months from the priority

	Date of issuance of this report 07 August 2006 (07.08.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Beate Giffo-Schmitt
Facsimile No. +41 22 338 82 70	e-mail: pt03@wipo.int

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			Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)
Applicant's or agent's file see form PCT/ISA/22			FOR FURTHER A	
International application I PCT/US2005/00328		International filing date (03.02.2005	day/month/year)	Priority date <i>(day/month/year)</i> 05.02.2004
International Patent Class H01L21/00, H01L21				
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2. FURTHER ACT	Lack of unity of Reasoned state applicability; cit Certain.docum Certain defects Certain observ ON hternational preli- f the International poses an Author	nent of opinion with rega invention ement under Rule 43 <i>bis</i> ations and explanations ents cited in the international app ations on the internation at ons on the internation at Preliminary Examining ty other than this one to	s.1 (a)(I) with regard to s supporting such state plication nal application made, this opinion will g Authority ("IPEA"). H be the IPEA and the	usually be considered to be a lowever, this does not apply where chosen IPEA has notifed the
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Name and mailing addres			Authorized Officer	Serie Marine
D-80298 M Tel. +49 88	Patent Office Junich 2399 - 0 Tx: 523 9 2399 - 4465	556 epmu d	Angermeier, D Telephone No. +49 89	2399-2283

Form (PCT/ISA/237) (Cover Sheet) (January 2004)

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International application No. PCT/US2005/003287

Box No. | Basis of the opinion

- 1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - □ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
- With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material;
 - □ a sequence listing
 - □ table(s) related to the sequence listing
 - b. format of material:
 - in written format
 - in computer readable form
 - c. time of filing/furnishing:
 - □ contained in the international application as filed.
 - □ filed together with the international application in computer readable form.
 - furnished subsequently to this Authority for the purposes of search.
- 3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
- 4. Additional comments: .

International application No. PCT/US2005/003287

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- the entire international application,
- 🖾 claims Nos. 13-19

because:

- the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
- the description, claims or drawings *(indicate particular elements below)* or said claims Nos. 13-19 are so unclear that no meaningful opinion could be formed *(specify)*:

see separate sheet

- the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
- no international search report has been established for the whole application or for said claims Nos.
- the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form

has not been furnished

the computer readable form

- has not been furnished
- does not comply with the standard

does not comply with the standard

the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-*bis* of the Administrative Instructions.

See separate sheet for further details

International application No. PCT/US2005/003287

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2. Citations and explanations

see separate sheet

International application No. PCT/US2005/003287

# Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

### see separate sheet

# Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

International application No.

### Re Item III.

1.0 Although claims 13 and 19 have been drafted as separate independent method claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

#### Re Item IV.

The separate groups of inventions are:

1) Claims 1-12:

This invention concerns a method of purifying a transfer container comprising the step of purging the transfer container with a gas having a certain concentration.

The problem to be solved is to reduce device contamination.

2) Claims 13-21:

This invention is directed to a method and a system of transferring an object from a transfer container to a sealed chamber.

The problem to be solved is to improve the process control.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT).

#### Re Item V.

1.0 The following documents (D) cited in the Partial International Search Report are pertinent to this communication, the numbering will be adhered to in the rest of the procedure:

D1: US 2002/124906 A1 (SUZUKI YOKO ET AL) 12 September 2002 (2002-09-12)

Form PCT/ISA/237 (Separate Sheet) (Sheet 1) (EPC-January 2004)

International application No.

D2: EP-A-1 067 583 (EBARA CORPORATION) 10 January 2001 (2001-01-10)

2.0 The current application does not meet the requirements of Article 33(2) PCT, since the subject-matter of claims 1 and 20 is not new.

2.1 Regarding independent claim 1, Document D1 shows a method of purifying transfer container, comprising (see paragraphs 11 and 220, figures 57A and 57B): purging the transfer chamber with gas having a concentration of contaminants no greater than 100 part per trillion, the transfer chamber being not hermetically sealed.

Consequently, the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

- 2.2 Document D2 is likewise novelty-destroying for the subject-matter of claim 1 (cf. paragraph 42, table 1).
- 2.3 Regarding independent claim 20, Document D1 reveals likewise a system for transferring an object between two environments, comprising (cf, Figures 57A, 57B and 68, paragraphs 11, 220, 243 and 245):

a) a non hermetically sealed transfer container, the container having an environment purged with a gas having a concentration of contaminants no greater than 100 parts per trillion,

b) a sealed chamber connected with the transfer container, and

c) a closable door configured to separate the environment of the sealed chamber from an environment of the transfer container when the door is closed.

Hence, the subject-matter of claim 20 lacks novelty in the sense of Article 33(2) PCT.

3.0 Dependent claims 2-12 and 21 not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

- The additional feature of the respective claims 2-12 and 21 is merely one of several straightforward possibilities from which the skilled person would select, in accordance

Form PCT/ISA/237 (Separate Sheet) (Sheet 2) (EPO-January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

with circumstances, without the exercise of inventive skill (Article 33(3) PCT).

### Re Item VII.

- 1) To meet the requirements of Rule 5.1 (a)(ii) PCT, the documents D1 and D2 should be identified in the description and their relevant contents should be indicated.
- 2) The feature of the claims 1-12 are not provided with reference signs placed in parentheses (Rule 6.2 (b) PCT).

### Re Item VIII.

1.0 In claims 1, 5-9 and 20 the expression "about" is vague and imprecise. Therefore, the subject-matter of these claims is not clear (Article 6 PCT).

Form PCT/ISA/237 (Separate Sheet) (Sheet 3) (EPO-January 2004)